





Product Sheet

# Reticuloendotheliosis virus (ATCC® VR-770™)

Please read this **FIRST**

	Storage Temp. <b>vapor of liquid nitrogen</b>
	Biosafety Level <b>2</b>

## Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

## Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: Reticuloendotheliosis virus (ATCC® VR-770™)

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## Description

**Strain:** T [F]

**Classification:** Retroviridae, Gammaretrovirus, Avian virus group

**Common Name:** Reticuloendotheliosis virus

**Depositor:** RL Witter

## Batch-Specific Information

Refer to the Certificate of Analysis for batch-specific test results.

## Propagation

### Propagation Host:

chicken embryo fibroblasts; chicken

**Host of Choice:** CEF TC, C

**Host Range:** CEF TC, C, turkey quail, duck and other avian species

chicken embryo fibroblasts in tissue culture; chicken bone marrow cells; chicken; turkey; quail; duck; other avian species

### Effect on Host:

Yes, in vitro effects: Cytopathic effects (moderate) and immunofluorescent antigen in tissue culture

Death in animals, moderate CPE and immunofluorescent ag in vitro

Yes, in vivo effects: Death in animals

## Growth Conditions

Duration: 8 days

## Comments

Avian RNA tumor virus (C-type particle, reverse transcriptase, oncogenic, 70s RNA) but is immunologically distinct from the leukosis-sarcoma viruses because the gs antigen and reverse transcriptase are different. Tumorigenic due to rel gene. Used for the production of tumors in chickens or transformation of bone marrow cells. Negative for ALV. The original member of the rel oncogene family, "v-rel", is found in REV-T. Virus may lose tumorigenicity on tissue culture passage. TC propagated material contains helper viruses. R.L. Witter obtained from R. G. Fischer in 1968, sometimes referred to as strain F or T-F. This stock should be used by those who wish to obtain the defective rapidly transforming REV, not those who want the helper REV.

## References

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).

## Key Abbreviations


ag, antigen  
ALV, avian leukosis virus  
C, chicken  
CS, calf serum  
CEF, chicken embryo fibroblasts  
CPE, cytopathic effect  
DMSO, dimethylsulfoxide  
gs, group-specific  
LD, lethal dose  
M199, medium 199  
MDV, Mareks disease virus  
mLV, murine leukemia virus  
Pen, penicillin  
REV, reticuloendotheliosis virus  
REV-T, reticuloendotheliosis virus strain T  
RNA, ribonucleic acid  
Strep, streptomycin  
TC, tissue culture  
TCID<sub>50</sub>(TCID[50]), the tissue culture infectious dose



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50% endpoint is the 50% infectious endpoint in cell culture. The TCID<sub>50</sub> is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD<sub>50</sub>) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID<sub>50</sub> provides a measure of the titer (or infectivity) of a virus preparation.

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### Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

### ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

### Disclaimers

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at [www.atcc.org](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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